

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Contact: Mr. Mike Gandy  
Project: SC DHEC ChemNuc GW

Report Date: August 31, 2007

Page 1 of 3

Client Sample ID: 082307-13  
Sample ID: 192376001  
Matrix: Ground Water  
Collect Date: 23-AUG-07 10:05  
Receive Date: 24-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium		525	+/-297	462	700	pCi/L		BXF1	08/27/07	1605	664333	3
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### Volatile Organics

*GEL 8260B Method List Liquid*

1,1,1-Trichloroethane	U	ND		0.300	1.00	ug/L	1	CDS1	08/28/07	1214	664728	4
1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1					
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1					
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1					
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1					
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1					
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1					
1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1					
1,4-Dioxane	U	ND		20.0	200	ug/L	1					
2-Butanone	U	ND		1.25	10.0	ug/L	1					
Acrolein	U	ND		3.00	10.0	ug/L	1					
Acrylonitrile	U	ND		1.00	10.0	ug/L	1					
Benzene	U	ND		0.300	1.00	ug/L	1					
Bromodichloromethane	U	ND		0.250	1.00	ug/L	1					
Bromoform	U	ND		0.250	1.00	ug/L	1					
Bromomethane	U	ND		0.500	1.00	ug/L	1					
Carbon tetrachloride	U	ND		0.250	1.00	ug/L	1					
Chlorobenzene	U	ND		0.250	1.00	ug/L	1					
Chloroethane	U	ND		0.500	1.00	ug/L	1					
Chloroform	U	ND		0.250	1.00	ug/L	1					
Chloromethane	U	ND		0.500	1.00	ug/L	1					
Dibromochloromethane	U	ND		0.250	1.00	ug/L	1					
Dichlorodifluoromethane	U	ND		0.500	5.00	ug/L	1					
Ethylbenzene		ND		0.250	1.00	ug/L	1					

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Client Sample ID: 082307-13  
Sample ID: 192376001

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Volatile Organics</b>												
<i>GEL 8260B Method List Liquid</i>												
	U											
Methylene chloride	U	ND		2.00	5.00	ug/L	1					
Tetrachloroethylene	U	ND		0.250	1.00	ug/L	1					
Toluene	U	ND		0.250	1.00	ug/L	1					
Trichloroethylene	U	ND		0.250	1.00	ug/L	1					
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1					
Trichlorotrifluoroethane	U	ND		1.00	10.0	ug/L	1					
Vinyl chloride	U	ND		0.500	1.00	ug/L	1					
Xylenes (total)	U	ND		0.250	3.00	ug/L	1					
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1					
trans-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1					
trans-1,3-Dichloropropylene	U	ND		0.250	1.00	ug/L	1					

### The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	EPA 901.1		
2	EPA 900.0		
3	EPA 906.0 Modified		
4	SW846 8260B		

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List Liquid	59.4 ug/L	60.0	99	(68%-121%)
Bromofluorobenzene	GEL 8260B Method List Liquid	60.9 ug/L	60.0	102	(80%-120%)
Dibromofluoromethane	GEL 8260B Method List Liquid	59.7 ug/L	60.0	100	(78%-124%)
Toluene-d8	GEL 8260B Method List Liquid	60.0 ug/L	60.0	100	(77%-122%)

### Notes:

The Qualifiers in this report are defined as follows :

\*\* Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

A The TIC is a suspected aldol-condensation product

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

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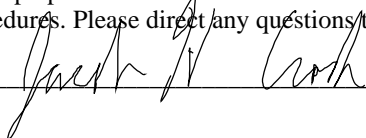
BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
D Results are reported from a diluted aliquot of the sample  
E Organics--Concentration of the target analyte exceeds the instrument calibration range  
H Analytical holding time was exceeded  
J Value is estimated  
M M if above MDC and less than LLD  
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC).  
Quantitation is based on nearest internal standard response factor  
N/A RPD or %Recovery limits do not apply.  
ND Analyte concentration is not detected above the detection limit  
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%  
R Sample results are rejected  
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.  
UI Gamma Spectroscopy--Uncertain identification  
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier  
Y QC Samples were not spiked with this compound  
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.  
h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

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Client Sample ID: 082307-14  
Sample ID: 192376002  
Matrix: Ground Water  
Collect Date: 23-AUG-07 10:30  
Receive Date: 24-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium		594	+/-306	470	700	pCi/L		BXF1	08/27/07	1621	664333	3
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1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1					
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1					
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1					
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1					
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1					
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1,4-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1					
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2-Butanone	U	ND		1.25	10.0	ug/L	1					
Acrolein	U	ND		3.00	10.0	ug/L	1					
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Project: DHEC00105  
Client ID: DHEC002

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	U											
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Toluene	U	ND		0.250	1.00	ug/L	1					
Trichloroethylene	U	ND		0.250	1.00	ug/L	1					
Trichlorofluoromethane	U	ND		0.310	5.00	ug/L	1					
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Xylenes (total)	U	ND		0.250	3.00	ug/L	1					
cis-1,2-Dichloroethylene	U	ND		0.300	1.00	ug/L	1					
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Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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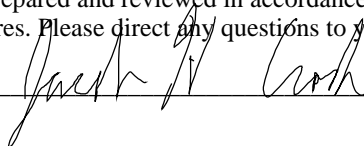
BD Results are either below the MDC or tracer recovery is low  
C Analyte has been confirmed by GC/MS analysis  
D Results are reported from a diluted aliquot of the sample  
E Organics--Concentration of the target analyte exceeds the instrument calibration range  
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Client Sample ID: 082307-15  
Sample ID: 192376003  
Matrix: Ground Water  
Collect Date: 23-AUG-07 10:50  
Receive Date: 24-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium		536	+/-298	461	700	pCi/L		BXF1	08/27/07	1638	664333	3
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### Volatile Organics

*GEL 8260B Method List Liquid*

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1,1,2,2-Tetrachloroethane	U	ND		0.250	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND		0.250	1.00	ug/L	1					
1,1-Dichloroethane	U	ND		0.300	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND		0.300	1.00	ug/L	1					
1,2-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1					
1,2-Dichloroethane	U	ND		0.250	1.00	ug/L	1					
1,2-Dichloropropane	U	ND		0.250	1.00	ug/L	1					
1,3-Dichlorobenzene	U	ND		0.250	1.00	ug/L	1					
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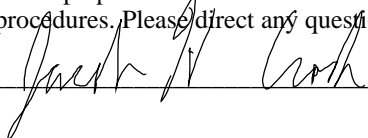
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The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by



# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : SC DHEC  
Address : 2600 Bull Street  
Columbia, South Carolina 29201

Report Date: August 31, 2007

Contact: Mr. Mike Gandy

Project: SC DHEC ChemNuc GW

Page 1 of 2

Client Sample ID: 082307-16  
Sample ID: 192376004  
Matrix: Ground Water  
Collect Date: 23-AUG-07 13:20  
Receive Date: 24-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium	U	ND	+/-268	457	700	pCi/L		BXF1	08/27/07	1654	664333	3
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### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 901.1	
2	EPA 900.0	
3	EPA 906.0 Modified	

### Notes:

The Qualifiers in this report are defined as follows :

\*\* Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

A The TIC is a suspected aldol-condensation product

B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.

BD Results are either below the MDC or tracer recovery is low

C Analyte has been confirmed by GC/MS analysis

D Results are reported from a diluted aliquot of the sample

H Analytical holding time was exceeded

J Value is estimated

M M if above MDC and less than LLD

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

R Sample results are rejected

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

UI Gamma Spectroscopy--Uncertain identification

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Y QC Samples were not spiked with this compound

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Project: **SC DHEC ChemNuc GW**

Report Date: August 31, 2007

Page 2 of 2

Client Sample ID: 082307-16  
Sample ID: 192376004

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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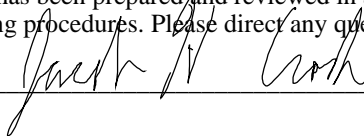
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Contact: Mr. Mike Gandy  
Project: SC DHEC ChemNuc GW

Report Date: August 31, 2007

Page 1 of 2

Client Sample ID: 082307-17  
Sample ID: 192376005  
Matrix: Ground Water  
Collect Date: 23-AUG-07 13:40  
Receive Date: 24-AUG-07  
Collector: Client

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Rad Gamma Spec Analysis

*Gammascpec, Gamma, Liquid (Standard List)*

### Rad Gas Flow Proportional Counting

*GFPC, Gross Alpha/Beta, liquid*

### Rad Liquid Scintillation Analysis

*LSC, Tritium Dist, Liquid*

Tritium	U	ND	+/-277	462	700	pCi/L		BXF1	08/27/07	1710	664333	3
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- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
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- Y QC Samples were not spiked with this compound

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Client Sample ID: 082307-17  
Sample ID: 192376005

Project: DHEC00105  
Client ID: DHEC002

Parameter	Qualifier	Result	Uncertainty	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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